# Headquarters Air Combat Command

# U-2 Mission Planning

**Jeff Rowell (MITRE)**
**ACC/DRSM**
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**This Briefing is:**
**UNCLASSIFIED**

# Overview

- Legacy Mission Planning Responsibilities
- JMPS Mission Planning Responsibilities
- Security Accreditation
- Legacy Roadmap
- JMPS Roadmap

**Almost Everything in Flux due to Large Funding Cuts**

# Legacy Mission Planning Responsibilities

- **ACC/DRSM**
  - Funds all common mission planning hardware
  - Funds AFMSS CORE, ISMs, and FPMs
  - Coordinates with ACC/DRH on U-2 mission planning needs
- **ACC/DRH U-2**
  - Funds all U-2 specific software and hardware
  - Coordinates with ACC/DRSM on U-2 mission planning needs
- **ESC/ACU**
  - SPO for CORE, ISMs, and FPMs
  - Coordinates with WRALC/LXG on U-2 mission planning needs
- **WRALC/LXG**
  - SPO for U-2 specific software and hardware
  - Coordinates with ESC/ACU on U-2 mission planning needs

# JMPS Mission Planning Responsibilities

- **ACC/DRSM**
  - Funds all common mission planning hardware
  - Funds all JMPS software
  - Coordinates with ACC/DRH on U-2 mission planning needs
- **ACC/DRH U-2**
  - Coordinates with ACC/DRSM on U-2 mission planning needs
- **ESC/ACU**
  - SPO for JMPS
  - Coordinates with WRALC/LXG on U-2 mission planning needs
- **WRALC/LXG**
  - Coordinates with ESC/ACU on U-2 mission planning needs

# Security Accreditation

- ACC/SC is AFMSS DAA for legacy systems
  - ESC/ACU prepares and sends package to ACC/SCSC
  - ACC/DRSM facilitates package
- New rules – MPE must be accredited also
  - WRALC/LXG prepares and sends MPE accreditation package to ACC/SCSC
  - ACC/DRSM facilitates package
- C2.3 requires a Certificate of Networthiness
  - ESC/ACU prepares ands sends package to ACC/SC
  - Aircraft SPO prepares and sends package to ACC/SC
- JMPS – ESC/ACU will handle accreditation and networthiness

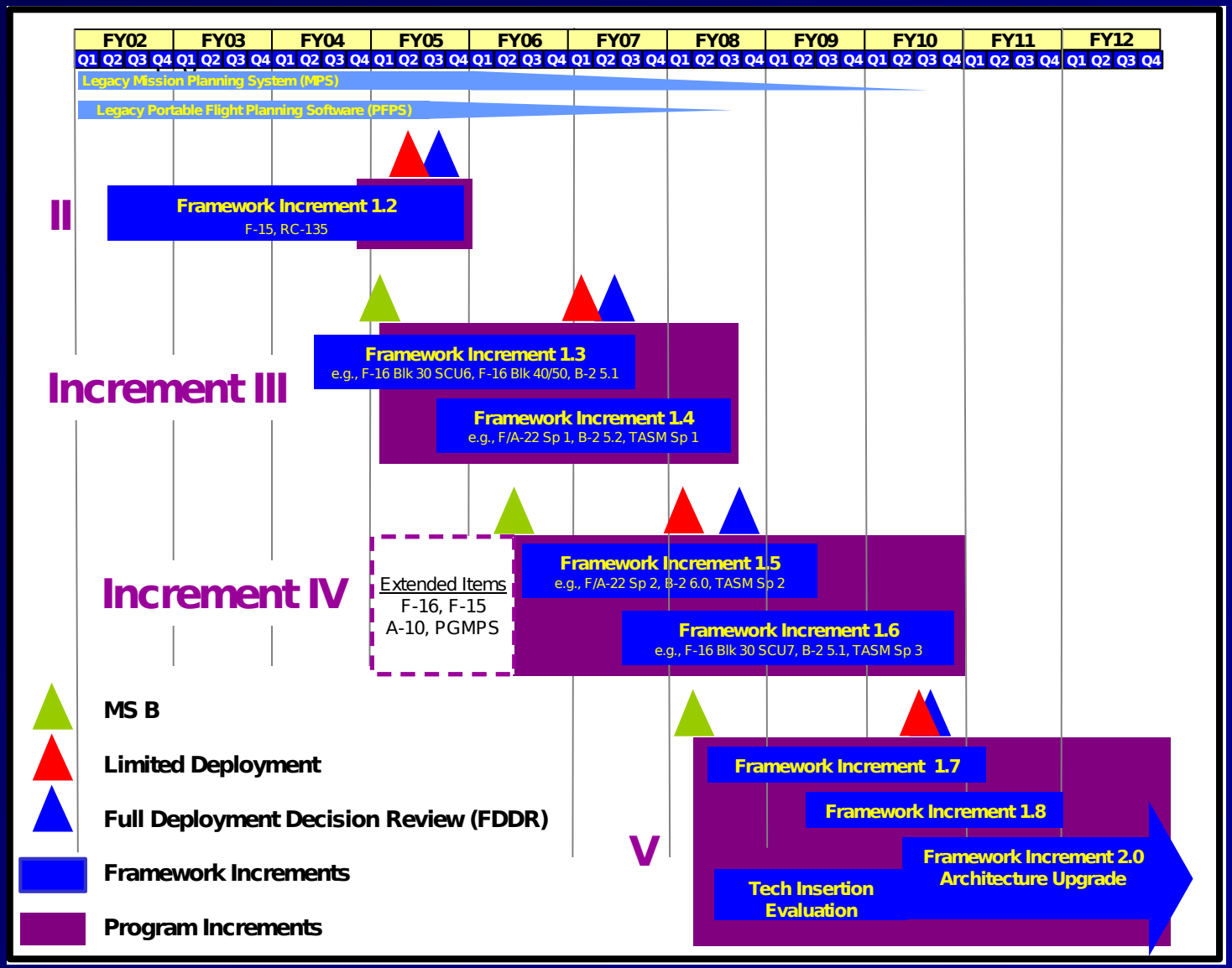
# Legacy Roadmap

- U-2 MPE 6.1 fielded on both MPS V and Tadpole
- U-2 MPE 7.0 OT&E complete, awaiting test report
  - Need mitigation for Priority 2 Deficiencies
- U-2 MPE 8.0 in development, enter OT Feb 05
  - Field ~May 05
  - CORE 2.2d
- MPS V warranty has been extended to Dec 08
- Tadpole came with three-year warranty, expires in 06

# JMPS Concept

- AFMSS now an ACAT ID & MAIS program
  - OSD now Milestone Decision Authority
  - JMPS is considered pre-milestone B
  - JMPS divided into increments for MS B reviews
- ESC/ACU is mission planning enterprise manager
  - MOAs with aircraft SPOs
- Software development will be under the Mission planning Enterprise Contract (MPEC)
  - Legacy support also under MPEC
- Integration efforts will be under the System Engineering Integration Contract (SEIC)

# JMPS Increment Concept


FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
Legacy Mission Planning System (MPS)
Legacy Portable Flight Planning Software (PFPS)
II
Framework Increment 1.2
F-15, RC-135
Increment III
Framework Increment 1.3
e.g., F-16 Blk 30 SCU6, F-16 Blk 40/50, B-2 5.1
Framework Increment 1.4
e.g., F/A-22 Sp 1, B-2 5.2, TASM Sp 1
Increment IV
Extended Items
F-16, F-15
A-10, PGMPS
Framework Increment 1.5
e.g., F/A-22 Sp 2, B-2 6.0, TASM Sp 2
Framework Increment 1.6
e.g., F-16 Blk 30 SCU7, B-2 5.1, TASM Sp 3
V
Framework Increment 1.7
Framework Increment 1.8
Framework Increment 2.0
Architecture Upgrade
Tech Insertion
Evaluation
MS B
Limited Deployment
Full Deployment Decision Review (FDDR)
Framework Increments
Program Increments

# ESC/ACU FY05 Plan

- Increment II proceeding under previous authority
  - F-15 on F 1.2.1
  - RC-135 on F 1.2.2
- Increment III preparing for Fall Milestone B
  - Approval to execute some FY04 money
  - Seeking approval to spend some FY05 money prior to MS B
- Increment IV
  - Long lead items to be included in Inc III Milestone B
  - Increment IV Milestone B scheduled for FY06

# MPEC Status

- In Source Selection
  - Expected award date for contracts and DO's 1-4 ~ 31 Aug 04
- 4 Delivery Orders (DO's) being awarded for first phase and Source Selection currently ongoing.
  - DO1- Systems Engineering (required to be awarded to win any other MPEC DO's)
  - DO2 – Generic UPC
  - DO3 – Build and Test System
  - DO4 – Weather Common Capability
- Framework 1.3/1.4 DO RFP almost ready for release

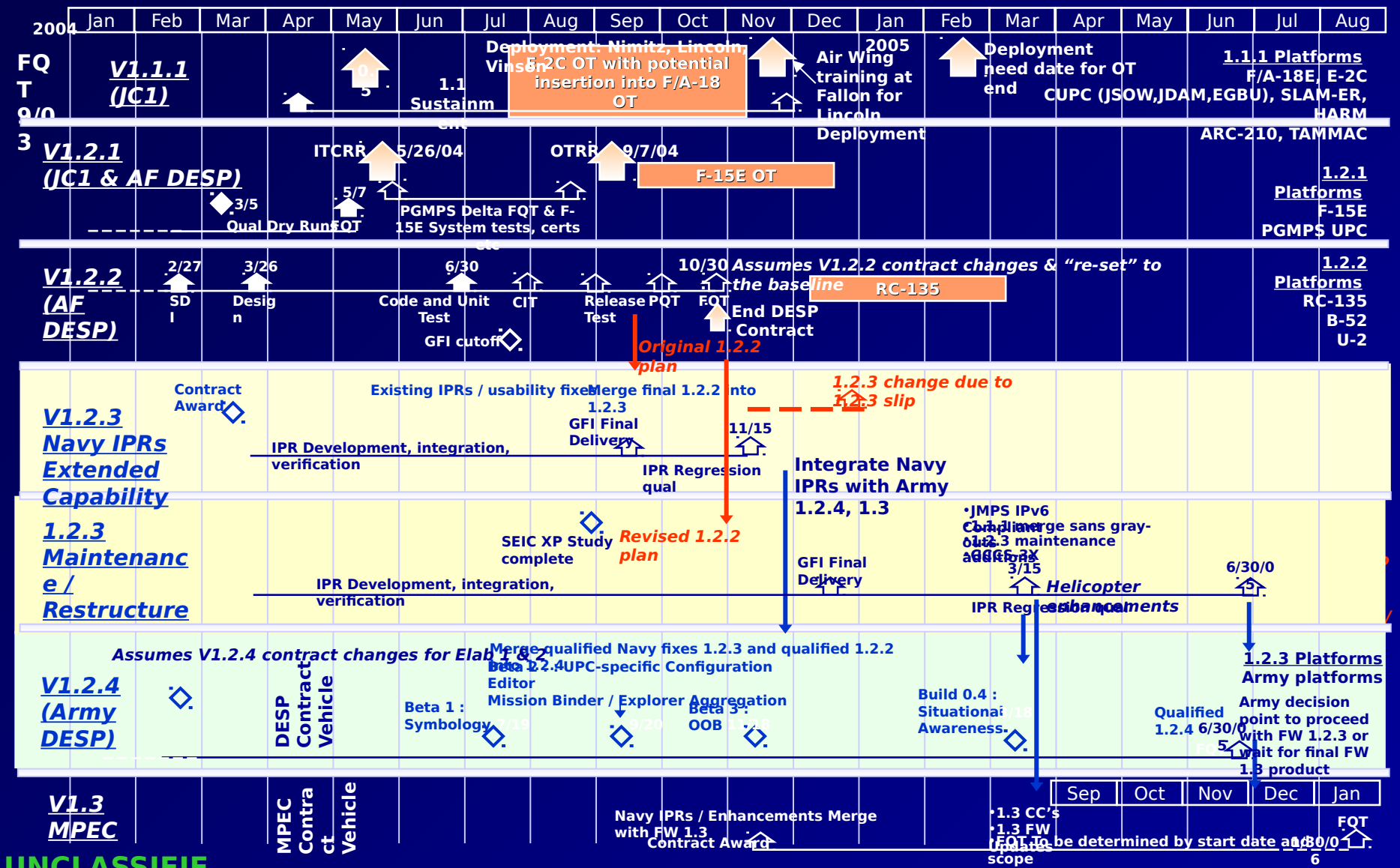
# SEIC Status

- Horizontal Integrator for all development efforts in MPEC across all platforms
- Anticipating draft RFP release by late July
- Possible industry day 2 weeks after RFP release

# JMPS Roadmap

- USAF using Framework 1.2.x baseline
  - Uses FalconView map engine versus Autometric
  - Navy currently on F 1.1.x baseline, planning a F 1.2.3 version
  - Army planning a F 1.2.4 version to support helicopters
- F 1.2.1 – FQT May 04
  - F-15 – Suite 4 Field Mar 05
- F 1.2.2 – FQT Oct - Nov 04
  - RC-135 – Field May 05
  - A-10 – Suite 3 Dec 06
- F 1.3 – FQT Sep 05
- F 1.4 – FQT ~Jun 06

# JMPS Program Schedules



# JMPS F 1.2.1

## Supports F-15

- Support of Precision Guided Munitions Planning SW
  - Adds Master-Slave Route Linking Option
  - Active Mission (with Multi-Select Capability)
  - Vertical Profile Container Access
  - Tab Manager
  - Multi-Select Explorer
- Threat handling improvements
- New FalconView Map

FQT Completed: May 2004

# JMPS F 1.2.2

## Supports RC-135 and Standalone Planner (B-52

- Polar CADRG
- FalconView SHAPE Files
- PFPS 3.3 Local Points Database Upgrade
- Additional threat handling improvements
- Automated snap to entire airway
- PFPS Hover Updates
- Dual DAFIF
- Recently used menu item list
- Illumination planning
- Ability to input desired fuel at landing
- Ability to display multiple local point files simultaneously
- MrSID support
- Ability to spiral climb

FQT to be Completed: Nov 2004

# JMPS Framework Milestones

| | F 1.2.1 | F 1.2.2 | F 1.2.3 (Navy) | F 1.3 | F 1.4 |
|---|---|---|---|---|---|
| Project Start | **Nov 2002** | **Sept 2003** | **April 2004** | **Nov 2004** | **Mar 2005** |
| Requirements Complete | **Oct 2003** | **Dec 2004** | **April 2004** | **Dec 2004** | **May 2005** |
| Design Complete | **Nov 2003** | **Mar 2004** | **Sept 2004** | **Jan 2004** | **June 2005** |
| Code and Unit Test Complete | **Dec 2004** | **Sept 2004** | **Sept 2004** | **Apr 2005** | **Nov 2005** |
| FW FQT Complete | **May 2004** | **Nov 2004** | **Nov 2004** | **Sept 2005** | **June 2006** |

# JMPS U-2 Funding

- Original plan had been FY04 start and two-year effort
- Plan now for mid FY05 start and ~two-year effort
- JMPS 3400 DPEM—28006F
  - Fixing DRs associated with UPCs
  - Updating UPCs to new framework versions and integrating new common capabilities
  - U-2 DPEM funding planned to start in FY07
  - FY06 funding removed due to delayed UPC start
- JMPS 3600—28006F
  - UPC enhancements for new OFP releases
  - Migration now FY05-FY07

# Questions

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